

Creation date 18-May-2016

Revision date 16-Apr-2025

Version 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

- (a) Product name PTFE Tape
Product identifier P421
- (b) Other means of identification
Product Code P627-00016
- (c) Recommended Use High temperature resistant, high dielectric strength adhesive tape. Uses include aerospace and electrical applications.
- (d) Supplier Address Nitto, Inc.
 1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.
 TEL.+1-732-901-7905 FAX.+1-732-364-4985
- Manufacturer details Nitto, Inc.
 1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.
 TEL.+1-732-901-7905 FAX.+1-732-364-4985
- (e) Emergency telephone number +1-732-901-7905 (Nitto, Inc.)

2. Hazards Identification

- (a) GHS - Classification Not applicable for article
- (b) Label elements Not Applicable
Physical state Solid
Odor Slight
Precautionary statements
- (c) Other Hazards Not Applicable

3. Composition/information on Ingredients

Product Classification ARTICLE

| <u>Chemical name</u> | <u>CAS RN®</u> | <u>Weight-%</u> |
|-------------------------|----------------|-----------------|
| Polytetrafluoroethylene | 9002-84-0 | 80-90 |
| Silicone adhesive | - | 10-20 |

The exact percentage (concentration) of composition has been withheld as a trade secret

4. First aid measures

- (a) General information
- If inhaled Will not occur
- Eye contact Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
- Skin contact Wash off immediately with soap and plenty of water
 In the case of skin irritation or allergic reactions see a physician
- Ingestion Immediately induce vomiting and then consult a doctor
- (b) Most important symptoms/effects, acute and delayed No information available
- (c) Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
- Note to physicians No information available

5. Fire-fighting measures

- (a) Fire extinguishing agent Dry chemical, CO₂, water spray or regular foam
Prohibited media No information available
- (b) Special exposure hazards in a fire No information available
Hazardous combustion products Above 275°C (527°F): PTFE can cause polymer fume fever. Above 400°C (750 °F): Hydrogen Fluoride, Carbonyl Fluoride, Perfluoroisobutylene Hydrocarbons Aldehydes
Explosion data No information available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available
- (c) Special protective equipment and precautions for firefighters In the event of fire, wear self-contained breathing apparatus
 Use personal protective equipment as required

6. Accidental release measures

- (a) Personal Precautions Use personal protective equipment as required
Protective equipment and emergency procedures Protective gloves and safety glasses recommended
- (b) Environmental precautions Prevent product from entering drains
 Keep out of waterways
 Dike to collect large liquid spills
- (c) Methods and material for containment and cleaning up Should not be released into the environment

7. Handling and Storage

- (a) Precautions for safe handling Protective gloves and safety glasses recommended
- (b) Storage conditions Store at room temperature and normal humidity away from direct sunlight

8. Exposure Controls/Personal Protection

- (a) Control parameters None under normal use conditions
Other information No information available
- (b) Appropriate engineering controls No information available
- (c) Personal protective equipment [PPE]
Respiratory Protection None under normal use conditions
Hand protection Wear non-permeable gloves
Skin protection Wear protective gloves and protective clothing

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- (a) Physical state Solid
 (b) Color Gray
 (c) Odor Slight
 (d) pH No data available
 (e) Melting point / Freezing point No information available
 (f) Boiling point / boiling range Not Applicable
boiling point Not Applicable
 (g) Flash Point No data available
 (h) Evaporation rate No data available
 (i) Flammability (solid, gas) Non-flammable solid
 (j) Upper/lower flammability or explosive limits

| | |
|--|--------------------|
| <u>Upper</u> | Not Applicable |
| <u>Lower</u> | Not Applicable |
| <u>(k) Vapor pressure</u> | Not Applicable |
| <u>(l) Vapor density</u> | Not Applicable |
| <u>(m) Specific gravity</u> | No data available |
| <u>(n) Solubility</u> | Insoluble in water |
| <u>(o) Partition Coefficient (n-octanol/water)</u> | No data available |
| <u>(p) Autoignition temperature</u> | No data available |
| <u>(q) Decomposition temperature</u> | No data available |
| <u>(r) Kinematic viscosity</u> | No data available |
| <u>(s) Molecular weight</u> | No data available |

9.2 Other information Not Applicable

10. Stability and Reactivity

| | |
|---|---|
| <u>(a) Reactivity</u> | Stable under normal conditions |
| <u>(b) Chemical stability</u> | Stable under normal conditions |
| <u>(c) Possibility of hazardous reactions</u> | No data available |
| <u>(d) Conditions to avoid</u> | No information available |
| <u>(e) Incompatible materials</u> | No information available |
| <u>(f) Hazardous decomposition products</u> | PTFE may decompose to hazardous decomposition products at temperatures above 400 °C. Thermal decomposition can lead to release of irritating and toxic gases and vapors |

11. Toxicological Information

| | |
|--|---|
| <u>(a) Information on likely routes of exposure</u> | |
| <u>Inhalation</u> | Inhalation of the micro particles from heating item above melting point or above 260°C may cause polymer fume fever |
| <u>Ingestion</u> | Not Applicable |
| <u>Skin contact</u> | May cause skin irritation to sensitive individuals |
| <u>Eye contact</u> | No information available |
| <u>(b) Most important symptoms/effects, acute and delayed</u> | No information available |
| <u>(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure</u> | |
| <u>Acute Toxicity</u> | No information available |
| <u>Skin corrosion/irritation</u> | No information available |
| <u>Serious eye damage/eye irritation</u> | No information available |
| <u>Respiratory sensitization</u> | No information available |
| <u>Germ cell mutagenicity</u> | No data available on finished product |
| <u>Reproductive Toxicity</u> | No data available on finished product |
| <u>Specification target internal organs/systemic toxicity (single exposure)</u> | No data available on finished product |
| <u>Specification target internal organs/systemic toxicity (repeat exposure)</u> | No data available on finished product |
| <u>Aspiration hazard</u> | Not Applicable |
| <u>(d) Carcinogenicity</u> | No data available on finished product |

12. Ecological Information

| | |
|---|---------------------------------------|
| <u>(a) Ecotoxicity</u> | No data available on finished product |
| <u>(b) Mobility in soil</u> | No data available on finished product |
| <u>(c) Persistence and degradability</u> | No data available on finished product |
| <u>(d) Bioaccumulation</u> | No data available on finished product |
| <u>(e) Other adverse effects</u> <u>Hazardous to the Ozone Layer</u> | Stable under normal conditions |

13. Disposal Considerations

Waste treatment methods

Disposal of wastes

Dispose of in accordance with federal, state and local regulations. The Customer is responsible for the proper disposal of any waste generated as a result of the use of the Product or of the Product itself, and is responsible for complying with all applicable laws, rules and regulations relating to the management, storage, treatment, shipment and disposal of such waste or Product ("Waste Management Practices"). "Product" includes anything sold by Nitto Denko Corporation and/or any affiliates or subsidiaries ("Company") to Customer. The Company is not responsible for any of the Customer's Waste Management Practices. As part of those practices, Customer must separate packaging from Product before disposal. Further, Customer should review and comply with this SDS prior to any such disposal.

Customer shall hold harmless the Company, its agents, contractors, successors and assigns from any and all liability, claims, loss, damage, death or injury, including reasonable attorney's fees and costs, arising out of or relating to Customer's Waste Management Practices

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

Disposal considerations

Should not be released into the environment

14. Transport Information

DOT(U.S. Department of Transportation) Not regulated
(HMTA)

UN Number Not Applicable

UN Proper Shipping Name Not regulated

Transport hazard class Not Applicable

Packing group, if applicable Not Applicable

Environmental hazards Not Applicable This product contains a chemical which is listed as a marine pollutant according to
(Applicable/Not applicable) IMDG/IMO

Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code

Special precautions in connection Store in a cool area away from heat

with transport or conveyance

TDG Not regulated

MEX(Transport is specifically for Mexico) Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

UN Number Not Applicable

UN Proper Shipping Name Not regulated

Transport hazard class -

Special precautions in connection Store in a cool area away from heat

with transport or conveyance

RID (Regulations concerning the Not regulated

International Carriage of Dangerous

Goods by Rail)

ADR Not regulated

ADN Technical Name Not regulated

15. Regulatory information

US Federal Regulations

SARA 313

Not Applicable

US State Regulations

California Proposition 65

Not Applicable

* This product will not contain compounds in particulate (respirable) form under normal conditions.

U.S. State Right-to-Know Regulations

| <u>Chemical name</u> | <u>New Jersey</u> | <u>Massachusetts</u> | <u>Pennsylvania</u> |
|--------------------------------------|-------------------|----------------------|---------------------|
| Polytetrafluoroethylene 9002-84-0 | - | - | X |

Global Inventories

Not Applicable

REACH 7 Article 33 Article SVHC notification (> 0.1 wt. %)

None based on the current SVHC listing, as of the date of this SDS.

16. Other information

| | | | | |
|-------------|-------------------------|-----------------------|---------------------------|--|
| <u>NFPA</u> | <u>Health Hazards</u> 0 | <u>Flammability</u> 0 | <u>Instability:</u> 0 | <u>Special hazards</u> - |
| <u>HMIS</u> | <u>Health hazards</u> 0 | <u>Flammability</u> 0 | <u>Physical Hazards</u> 0 | <u>Personal protective equipment</u> X |

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Source Information

Raw material SDS
LOLI(Chem ADVISOR) GHS classification data

Disclaimer

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End of Safety Data Sheet